AMENDMENTS TO THE CLAIMS

1. (currently amended) An Al-Mg alloy comprising from 0.05-0.2% Cu and having weldability, formability and/or corrosion resistance approximating 5XXX alloys and further displaying a substantially reduced propensity to become corrosion-sensitive, even after being subjected to at least one sensitization treatment conducted from 80-200 degrees C, wherein upon being subjected to a sensitization treatment a quaternary tau phase is formed at grain boundaries.

2. (canceled)

3. (canceled)

4. (currently amended) An Al-Mg alloy that has been subjected to at least one sensitization treatment conducted from 80-200 degrees C, said alloy comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;
Mg 4.0-5.0%;
Mn 0.4-1.0%;
Incidental impurities; and
Al balance.

5. (previously presented) An Al-Mg alloy according to claim 4, further comprising Ag 0.03-.23%.

6. (previously presented) An Al-Mg alloy according to claim 4, further comprising Cr 0-0.3%.

7. (currently amended) An Al-Mg-alloy comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;

Mg 3.5-5.0%;

Mn 0.4-1.0%;

Incidental impurities; and

Al balance,

wherein upon being subjected to a sensitization treatment at a temperature from 80-200°C, a quaternary Al-Mg-Zn-Cu phase is formed at grain boundaries.

8. (canceled)

9. (previously presented) An Al-Mg alloy consisting essentially of:

Cu 0.05-0.2%;

Zn 0.3-0.6%;

Mg 4.0-5.0%;

Mn 0.4-1.0%;

Ag 0.03-0.23%;

Incidental impurities; and

Al balance.

10. (previously presented) An Al-Mg alloy consisting essentially of:

Cu 0.05-0.2%;

Zn 0.3-0.6%;

Mg 4.0-5.0%;

Mn 0.4-1.0%;

Incidental impurities; and

Al balance.

11. (previously presented) An Al-Mg alloy consisting essentially of:

Cu 0.05-0.2%;

Zn 0.3-0.6%;

Mg 4.0-5.0%;

Mn 0.4-1.0%;
Cr 0-0.3%;
Incidental impurities; and
Al balance.

12. (currently amended) An Al-Mg alloy of claim 1 comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;
Mg 3.9-5.0%;
Mn 0.4-1.0%;
Incidental impurities; and
Al balance.

13. (currently amended) An Al-Mg alloy of claim 1 comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;
Mg 3.8-5.0%;
Mn 0.4-1.0%;
Cr 0-0.3%;
Incidental impurities; and
Al balance.

14. (currently amended) An Al-Mg alloy of claim 1 comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;
Mg 3.5-6.5%;
Mn 0.4-1.0%;
Cr 0-0.3%;
Incidental impurities; and

Al balance.

15. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 1.

16. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 4.

17. (currently amended) An Al-Mg based alloy comprising from 0.05-2.0% Cu, and having weldability, formability and/or corrosion resistance~~, and cost processing at a sheet or plate supplier~~ approximating 5XXX alloys and further displaying a substantially reduced propensity to become corrosion-sensitive, even after being subjected to at least one sensitization treatment, wherein said sensitization treatment is conducted from 80 to 200 degrees C. .

18. (canceled) .

19. (previously presented) An Al-Mg alloy according to claim 17, comprising from 0.05-0.2% Cu.

20. (previously presented) An Al-Mg alloy according to claim 17 comprising:

Cu 0.05-0.2%;
Zn 0.3-0.6%;
Mg 4.0-5.0%;
Mn 0.4-1.0%;
Incidental impurities; and
Al balance.

21. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 6.

22. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 7.

23. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 8.

24. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 9.

25. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 10.

26. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 11.

27. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 12.

28. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 13.

29. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 14.

30. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 17.

31. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 18.

32. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 19.

33. (previously presented) An Al-Mg alloy according to claim 1, wherein the tau phase formed has an average size from about 0.1 to about1 μm and a mass loss according to ASTM G 67 of less than about 40 mg/cm^2.

34. (previously presented) An alloy according to claim 33, wherein said mass loss is less than about 27 mg/cm.

35. (previously presented) An Al-Mg alloy after having been subjected to treatment at temperature of about 80-200 degrees C for sufficient time to establish a drop in ductility to failure from dry air to aqueous NaCl of less than about 10%.

36. (previously presented) An alloy according to claim 1, wherein said sensitization treatment comprises a simulation of actual conditions in use.

37. (previously presented)An alloy according to claim 1, wherein said sensitization treatment occurs during use.

38. (previously presented) An Al-Mg alloy according to claim 7, comprising a tau phase having an average size from about 0.1 to about1 μm and a mass loss according to ASTM G 67 of less than about 40 mg/cm^2.

39. (previously presented) An Al-Mg alloy according to claim 38, wherein said mass loss is less than about 27 mg/cm^2.

40. (new) An Al-Mg alloy according to claim 1, comprising Zn in an amount from 0.3-0.6%.

41. (new) An Al-Mg alloy according to claim 17, comprising Zn in an amount from 0.3-0.6%.